

2. *Allograpta fracta*. = *exotica*

Allograpta fracta, Osten Sacken, Western Diptera, in Bull. U.S. Geol. & Geogr. Surv. iii. p. 331¹;

Willist. Synopsis N.-Am. Syrphidæ, p. 97².

? *Allograpta exotica*, v. d. Wulp, Tijdschr. v. Ent. xxvi. p. 2, t. 1. f. 2³ (nec Wiedem.?).

Hab. UNITED STATES, California^{1 2}.—MEXICO, Xucumanatlan 7000 feet, Venta de Zopilote 2800 feet, both in Guerrero (*H. H. Smith*), Ciudad in Durango (*Forrer*).—ANTILLES, Guadeloupe³.

Four specimens from Mexico, differing chiefly from *A. obliqua* in the presence of a deep black facial stripe. The first abdominal segment is as in *A. obliqua*, and the band of the second segment is not interrupted.

3. *Allograpta* —?

? *Syrphus exoticus*, Wiedem. Aussereur. zweifl. Ins. ii. p. 136¹.

Hab. MEXICO, Xucumanatlan 7000 feet, Omilteme 8000 feet, Amula 6000 feet (*H. H. Smith*).—BRAZIL¹.

Differs markedly from the two preceding species in the mesonotum being opaque dark green in both sexes. The black stripe of the face is broader than in *A. fracta*, the hind legs and abdomen darker. The third joint of the antennæ is largely black. Four specimens.

SPHÆROPHORIA.

Sphærophoria, St.-Fargeau & Serville, Encycl. Méthod. x. p. 513 (1825).

Melithreptus, Loew, in Oken's Isis, 1840, p. 573.

The genus *Sphærophoria* is, at present, one of much difficulty, inasmuch as it requires often numerous specimens, from different localities, to determine the limits of variational differences. The black markings of the face and front, and of the legs, and the markings of the abdomen are all more or less variable, and one should not place too much dependence upon them. All the species which I have so far seen from Central America have a small hypopygium and incomplete lateral thoracic stripes. Bigot has, however, described species with the normal hypopygium. Even where the hypopygium is minute, one can scarcely mistake the generic relationships, as presented in the structure of the head and face, and the elongate abdomen.

Synopsis of the recognized Central-American species.

- | | |
|---|--------------|
| 1. Fifth segment of the abdomen with four elongated spots or stripes. | 2. |
| Fifth segment of the abdomen with a transverse band | 4. |
| 2. Fourth abdominal segment with an uninterrupted arcuate yellow band | 3. |
| Fourth abdominal segment with rectangular and oblique markings. | Sp. (no. 3). |